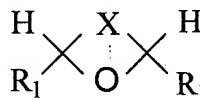
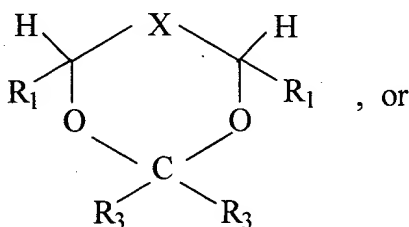
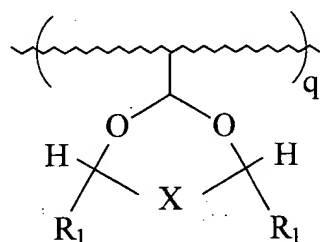
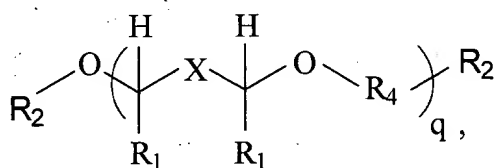


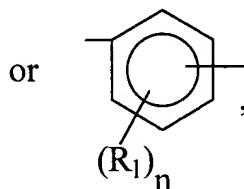
# IN THE CLAIMS

Claims 1 to 24 (canceled)

25. (Currently amended) A polymer which comprises polyvinyl chloride, polycarbonate, polyurethane, polyethylene, or polypropylene, containing about 0.005 to about 10 phr of a stabilizer having the formula:



where X is  $-R_1C=CR_1-$ ,  $-C\equiv C-$ ,



each R is independently selected from hydrogen and R', each R' is independently selected from alkyl from C<sub>1</sub> to C<sub>20</sub>, aryl from C<sub>6</sub> to C<sub>20</sub>, alkaryl from C<sub>7</sub> to C<sub>20</sub>, and aralkyl from C<sub>7</sub> to C<sub>20</sub>; each R<sub>1</sub> is independently selected from R, OR, RCO, ROCO, ROCO<sub>2</sub>, P(R)<sub>2</sub>, P(OR)<sub>2</sub>, PR(OR), N(R)<sub>2</sub>, (R)<sub>2</sub>NCO, (R)<sub>2</sub>NCO<sub>2</sub>, SR, and halogen; each R<sub>2</sub> is independently selected

9 from R, RCO, and ROCO, ~~P(OR)<sub>2</sub>, Sn(R)<sub>p</sub>(OR)<sub>3-p</sub>, Sn(R)<sub>p</sub>(OGOR)<sub>3-p</sub>, Si(R)<sub>p</sub>(OR)<sub>3-p</sub>, and~~  
 10 ~~B(R)<sub>p</sub>(OR)<sub>2-p</sub>~~, and two R<sub>1</sub> groups, two R<sub>2</sub> groups, or an R<sub>1</sub> group and an R<sub>2</sub> group can be  
 11 bridged together to form a ring, except that when X is -R<sub>1</sub>C=CR<sub>1</sub>- at least one R<sub>2</sub> is not  
 12 hydrogen; each R<sub>3</sub> is independently selected from R', RCO, ROCO, ROCO<sub>2</sub>, OR, SR, and  
 13 ~~N(R)<sub>2</sub>, OP(R)<sub>2</sub>, and OP(OR)<sub>2</sub>~~; R<sub>4</sub> is alkylene from C<sub>1</sub> to C<sub>20</sub>, arylene from C<sub>6</sub> to C<sub>20</sub>,  
 14 (aryl)alkylene from C<sub>7</sub> to C<sub>20</sub>, (alkyl)arylene from C<sub>7</sub> to C<sub>20</sub>, alkanediyl from C<sub>1</sub> to C<sub>20</sub>,  
 15 (aryl)alkanediyl from C<sub>7</sub> to C<sub>20</sub>, -CO-(alkylene)-CO- from C<sub>1</sub> to C<sub>20</sub>, -CO-arylene-CO- from  
 16 C<sub>6</sub> to C<sub>20</sub>, -CO-(aryl)alkylene-CO- from C<sub>7</sub> to C<sub>20</sub>, and -CO-(alkyl)arylene-CO- from C<sub>7</sub> to  
 17 C<sub>20</sub>, ~~Si(R)<sub>2</sub>, SiR(OR), Si(OR)<sub>2</sub>, P(OR), B(OR), Sn(R)<sub>2</sub>, SnR(OR), or SnR(O-CO-R)~~; and q  
 18 is 1 to 1000.

26. (Previously added) A polymer according to Claim 25 wherein said polymer is polyvinyl chloride.

27. (Previously added) A polymer according to Claim 25 that is has been made into an article that has been sterilized with gamma radiation.

28. (Currently amended) A polymer ~~according to Claim 25 wherein said stabilizer is~~ which comprises polyvinyl chloride, polycarbonate, polyurethane, polyethylene, or polypropylene, containing about 0.005 to about 10 phr of cis-4-benzyloxy-2-buten-1-ol.

29. (Previously added) A polymer according to Claim 25 wherein said stabilizer is

cis-1,4-dibenzyloxy-2-butene.

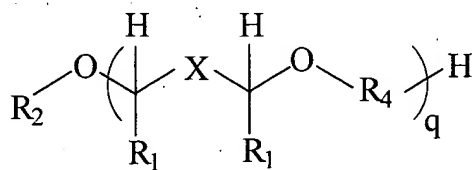
30. (Previously added) A polymer according to Claim 25 wherein said stabilizer is a phthalan.

31. (Previously added) A polymer according to Claim 25 wherein X is  $-R_1C=CR_1-$ .

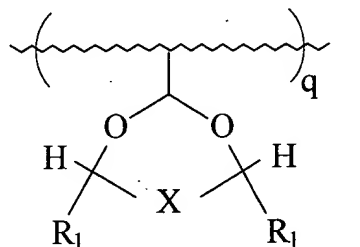
32. (Currently amended) A polymer according to Claim 25 31 wherein X is  $-HC=CH-$ .

33. (Previously added) A polymer according to Claim 25 where each R is independently selected from hydrogen, alkyl from  $C_1$  to  $C_{12}$ , aryl from  $C_6$  to  $C_{12}$ , alkaryl from  $C_7$  to  $C_{12}$ , and aralkyl from  $C_7$  to  $C_{12}$ .

34. (Previously added) A polymer according to Claim 25 wherein said stabilizer has the structure:

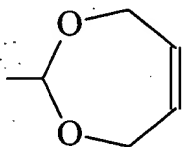


or



where  $R_4$  is alkylene from  $C_1$  to  $C_8$ , (aryl)alkylene from  $C_7$  to  $C_8$ , or  $-\text{CO}-(\text{aryl})\text{alkylene}-\text{CO}-$  from  $C_7$  to  $C_8$ ; and  $q$  is 1 to 5.

DI 35. (Previously added) A polymer according to Claim 34 wherein said stabilizer has the pendant group



36. (Previously added) A polymer according to Claim 34 that has been made into an article and sterilized with gamma radiation.

37. (Previously added) A polymer according to Claim 25 wherein  $R$  is benzyl.

38. (Previously added) A polymer according to Claim 25 wherein  $R_1$  is H.

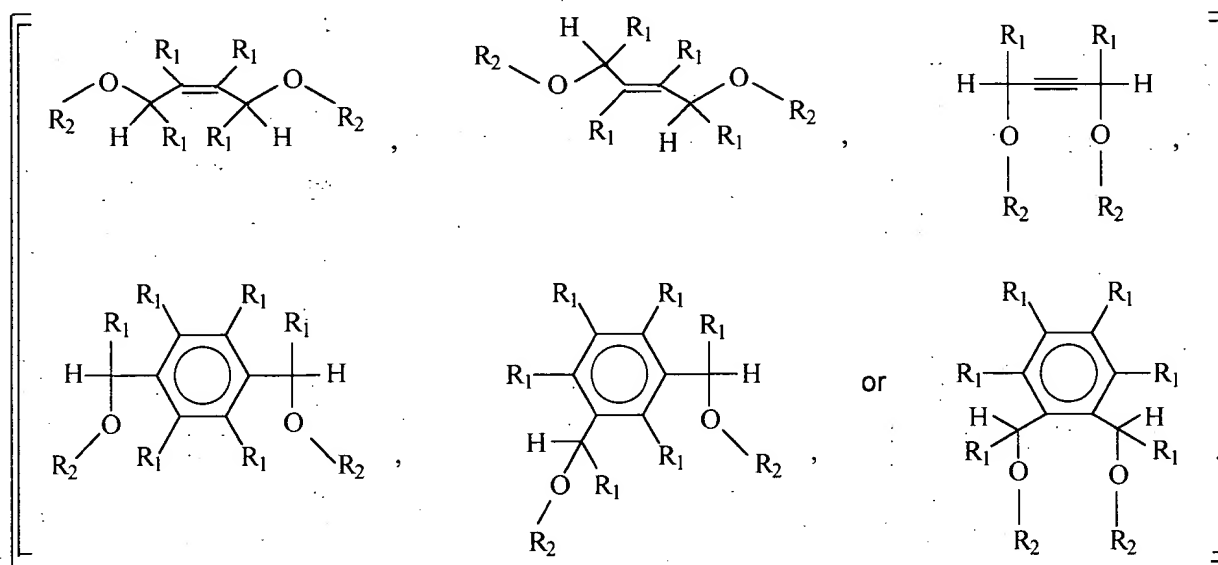
39. (Previously added) A polymer according to Claim 25 wherein  $R_2$  is R.

40. (Previously added) A polymer according to Claim 25 wherein  $R_3$  is R.

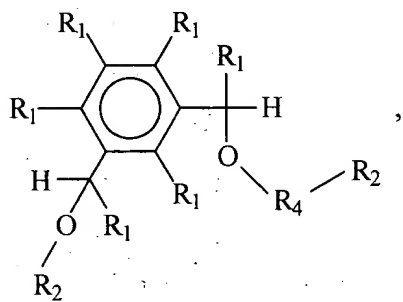
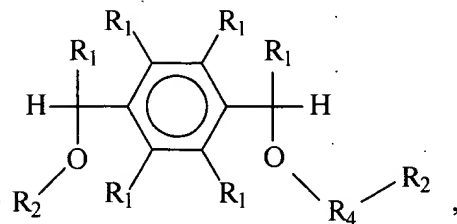
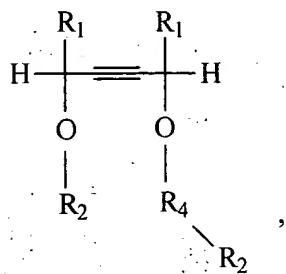
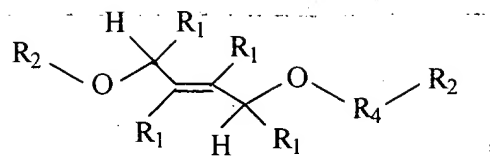
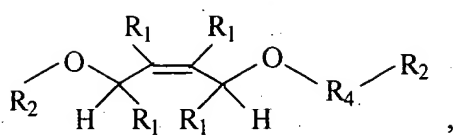
41. (Previously added) A polymer according to Claim 25 wherein said two  $R_1$  groups that can be bridged together to form a ring are selected from the group consisting of alkylene

from C<sub>1</sub> to C<sub>8</sub>, (aryl)alkylene from C<sub>7</sub> to C<sub>8</sub>, and -CO-(aryl)alkylene-CO- from C<sub>7</sub> to C<sub>8</sub>.

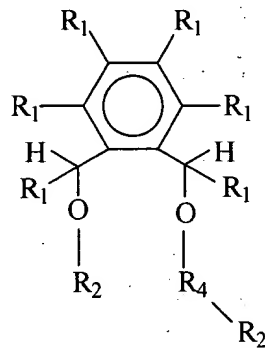
42. (Currently amended) A polymer according to Claim 25 wherein said stabilizer has the formula



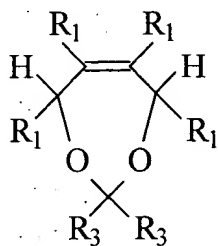
D1



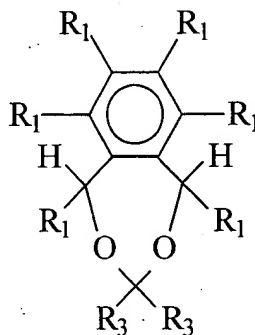
or



43. (Previously added) A polymer according to Claim 25 wherein said stabilizer has the formula:

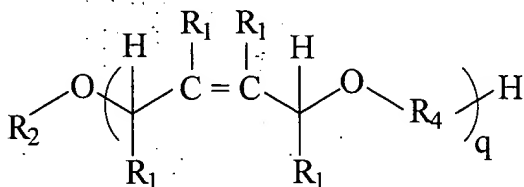


or

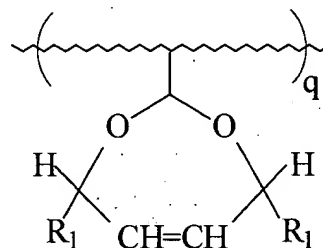


D1

44. (Currently amended) A polymer which comprises polyvinyl chloride, polycarbonate, polyurethane, polyethylene, or polypropylene, containing about 0.005 to about 10 phr of a stabilizer having the formula:



or



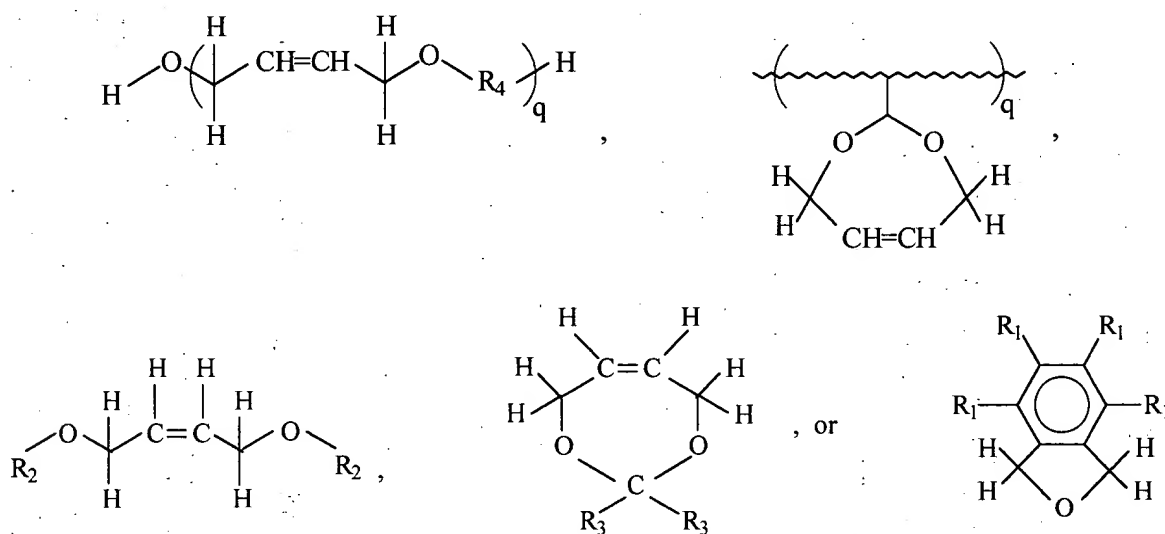
- where each R is independently selected from hydrogen and R', each R' is independently selected from alkyl from C<sub>1</sub> to C<sub>20</sub>, aryl from C<sub>6</sub> to C<sub>20</sub>, alkaryl from C<sub>7</sub> to C<sub>20</sub>, and aralkyl from C<sub>7</sub> to C<sub>20</sub>; each R<sub>1</sub> is independently selected from R, OR, RCO, ROCO, ROCO<sub>2</sub>, P(R)<sub>2</sub>, P(OR)<sub>2</sub>, PR(OR), N(R)<sub>2</sub>, (R)<sub>2</sub>NCO, (R)<sub>2</sub>NCO<sub>2</sub>, SR, and halogen; each R<sub>2</sub> is independently selected from R, RCO, and ROCO, P(OR)<sub>2</sub>, Sn(R)<sub>p</sub>(OR)<sub>3-p</sub>, Sn(R)<sub>p</sub>(OCOR)<sub>3-p</sub>, Si(R)<sub>p</sub>(OR)<sub>3-p</sub>, and B(R)<sub>p</sub>(OR)<sub>2-p</sub>, and two R<sub>1</sub> groups, two R<sub>2</sub> groups, or an R<sub>1</sub> group and an R<sub>2</sub> group can be bridged together to form a ring, except that when X is -R<sub>1</sub>C=CR<sub>1</sub>- at least one R<sub>2</sub> is not hydrogen; R<sub>4</sub> is alkylene from C<sub>1</sub> to C<sub>8</sub>, (aryl)alkylene from C<sub>7</sub> to C<sub>8</sub>, or -CO-(aryl)alkylene-CO- from C<sub>7</sub> to C<sub>8</sub>; and q is 1 to 5.

45. (Previously added) A polymer according to Claim 44 wherein said polymer is polyvinyl chloride.

D-1

46. (Previously added) A polymer according to Claim 45 that has been made into an article and said article has been sterilized with gamma radiation.

47. (Previously added) Polyvinyl chloride, polyurethane, polyethylene, polypropylene, or polycarbonate containing about 0.2 to about 6 phr of a stabilizer having the formula:



where  $R_1$  is hydrogen; one  $R_2$  is R and the other  $R_2$  is R or hydrogen;  $R_3$  is R;  $R_4$  is alkylene from  $C_1$  to  $C_8$ , (aryl)alkylene from  $C_7$  to  $C_8$ , or  $-\text{CO}-(\text{aryl})\text{alkylene}-\text{CO}-$  from  $C_7$  to  $C_8$ ; R is benzyl; and q is 1 to 5.

48. (Previously added) Polyvinyl chloride according to Claim 47 that has been made into an article and said article has been sterilized with gamma radiation.